

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-760 REV. G OR LATER APPROVED REVISION AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-760 REV. 5 OR LATER APPROVED REVISION

REF. TCCA STC: SH07-37  
REF. FAA STC: SR02492NY  
REF. EASA STC: EASA.IM.R.S.01361  
REF. ANAC STC: 2009S08-18  
REF. ANAC STC: 2009S08-19  
REF. ANAC STC: 2009S08-20

## 1.0 PURPOSE:

The Purpose of this Dart Service Instruction (DSI) is to introduce the new D412-760-219 Lightweight Baggage Compartment kit, which includes a new D4640-17 Forward Wall Protector with additional cutouts and a new D3952-5 Placard to install on the D4640-13 Door Protector. This DSI also creates the DSI 9864-011 Conversion kit, which includes parts and instructions to convert a D412-760-217 kit to a D412-760-219 kit.

## 2.0 INSTALLATION PROCEDURE:

### 2.1 D412-760-219 Installation

Install D412-760-219 kit per Section 3.10 of IIN-D412-760 except as follows:

- 2.1.1 Install the D4640-17 Forward Wall Protector in lieu of the D4640-3 Forward Wall Protector.
- 2.1.2 Install the D3952-5 Placard above the D3952-3 Placard on the D4640-13 Door Protector as shown in Figure 2.

### 2.2 DSI 9864-011 Installation

To convert a D412-760-217 kit to a D412-760-219 kit:

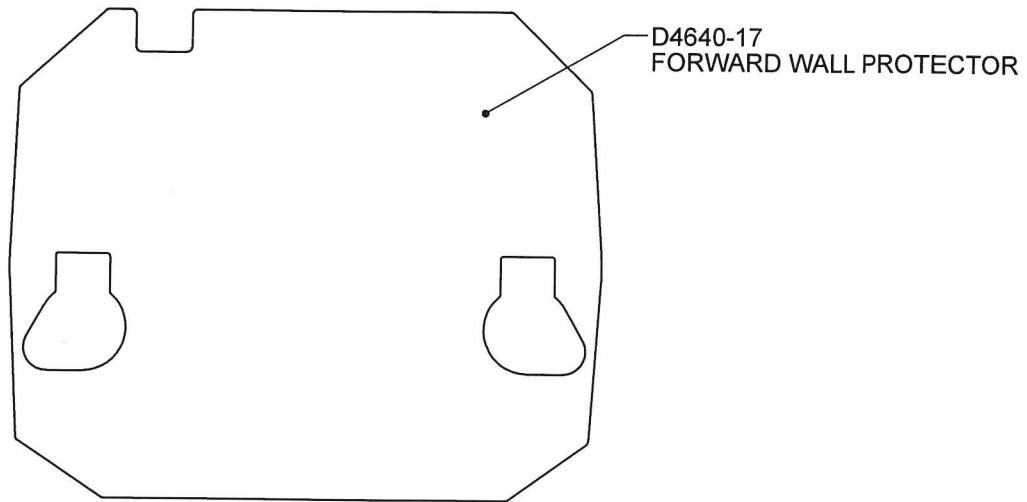
- 2.2.1 Remove the D4640-3 Forward Wall Protector by removing D3628-5 washers and MS27039-1 screws used to attach the panel to the forward wall of the Baggage Compartment.
- 2.2.2 Locate the D4640-17 Forward Wall Protector against the forward wall of the Baggage Compartment and transfer drill a  $\phi 0.257"$  hole from the potted insert to the D4640-17 Forward Wall Protector.
- 2.2.3 Enlarge the holes on the D4640-17 Forward Wall Protector to  $\phi 1.00"$  and deburr holes. Holes may be enlarged to  $\phi 1.13"$  if necessary to provide alignment with potted inserts.
- 2.2.4 Position the D4640-17 Forward Wall Protector against the forward wall of the Baggage Compartment and install into the existing inserts in the forward wall of the Baggage Compartment with D3628-5 washers and MS27039-1-04 screws per Figure 6 Detail D of IIN-D412-760 Rev. G. Longer or shorter screws may be used to ensure 1.5-4 threads in safety. Torque the #10 fasteners to 15-25 in-lbs (1.7-2.8 N-m).
- 2.2.5 Install the D3952-5 Placard above the D3952-3 Placard on the D4640-13 Door Protector as shown in Figure 2.

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
APPROVED	
BY:	D. SHEPHERD (DE # 02)
DATE:	21.10.22
CERT. NO.:	SH07-37
ISSUE NO.:	3

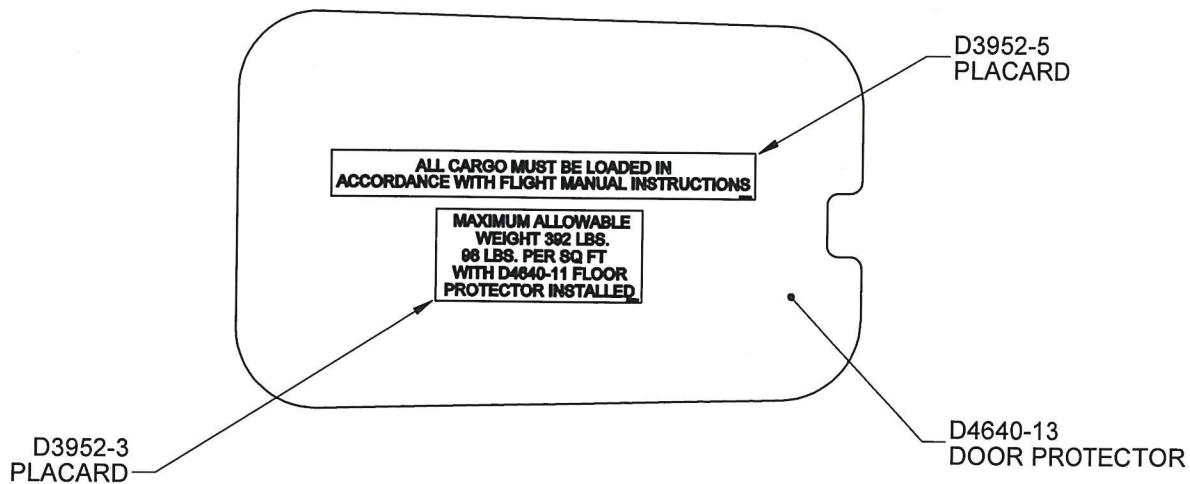
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A	NEW ISSUE		SAD	DATE
REV.	DESCRIPTION		BY	DATE
DESIGN	SAD	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA		
DRAWN	SAD			
CHECKED	MB			
MFG. APPR.	N/A			
APPROVED	IT	DRAWING NO.	REV. A	
DE APPR.	DS	DSI 9864	SHEET 1 OF 3	
DATE	21.10.22	TITLE	SCALE	
		ADD D412-760-219 KIT	NTS	

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**FIGURE 1**  
D4640-17 FORWARD WALL PROTECTOR



**FIGURE 2**  
D3952-5 PLACARD INSTALLATION

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		MFG. APPR.	N/A	DSI 9864	SHEET 2 OF 3
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### **3.0 PART LIST**

#### **3.1 D412-760-219 LIGHTWEIGHT BAGGAGE COMPARTMENT PROTECTOR KIT**

ITEM	QTY -219	Part Number	Description
	X	D412-760-219	LIGHTWEIGHT BAGGAGE COMPARTMENT PROTECTOR KIT
1	43	D3628-5	CUPPED WASHER
2	1	D3952-3	PLACARD
3	1	D3952-5	PLACARD
4	1	D4640-1	RH FWD WALL PROTECTOR
5	1	D4640-5	LH WALL PROTECTOR
6	1	D4640-7	AFT WALL PROTECTOR
7	1	D4640-9	RH AFT WALL PROTECTOR
8	1	D4640-11	FLOOR PROTECTOR
9	1	D4640-13	DOOR PROTECTOR
10	1	D4640-15	CEILING PROTECTOR
11	1	D4640-17	FORWARD WALL PROTECTOR
12	36	80-004-2-6	INSERT
13	7	80-004-2-8	INSERT
14	36	MS27039-1-04	SCREW
15	7	MS27039-1-05	SCREW
16	3	MS27039-1-10	SCREW
17	6	NAS1149F0363P	WASHER (AN960-10)

#### **3.2 DSI 9864-011 CONVERSION KIT**

ITEM	QTY -011	P/N	DESCRIPTION			
			CONVERSION KIT			
1	1	D4640-17	FORWARD WALL PROTECTOR			
2	1	D3952-5	PLACARD			

### **4.0 WEIGHT AND BALANCE**

Installation	Weight	LONGITUDINAL		LATERAL	
		Arm	Moment	Arm	Moment
D412-760-219 Lightweight Baggage Compartment Protector Kit	29.2 lb 13.2 kg	-0.30 in -0.008 m	-8.8 in-lb -0.11 m-kg	294 in 7.47 m	8585 in-lb 98.6 m-kg

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MFG. APPR.	N/A	DSI 9864 SHEET 3 OF 3
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ADD D412-760-219 KIT		
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